

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexascins, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,395	07/03/2003	Shane S. Taylor	58232/A647	5914
23363 7590 10/01/2008 CHRISTIE, PARKER & HALE, LLP			EXAMINER	
PO BOX 7068			SCHNEIDER, CRAIG M	
PASADENA, CA 91109-7068			ART UNIT	PAPER NUMBER
			3753	
			MAIL DATE	DELIVERY MODE
			10/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/614.395 TAYLOR ET AL. Office Action Summary Examiner Art Unit CRAIG M. SCHNEIDER 3753 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 08 September 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 66.70 and 97-103 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 66,70 and 97-103 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 08 September 2008 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _______

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Application/Control Number: 10/614,395 Page 2

Art Unit: 3753

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/8/08 has been entered.

Drawings

2. The drawings were received on 9/8/08. These drawings are acceptable.

Claim Rejections - 35 USC § 103

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 66, 70 are rejected as understood under 35 U.S.C. 103(a) as being unpatentable over Contreras (4,015,630) in view of Schuler (5,685,297) and in further view of Dey (3,426,790) and further in view of Hershman (2,725,072).

Contreras discloses a regulator device configured to reduce the gas pressure of a source of pressurized breathable gas in a self contained underwater breathing apparatus comprising a regulator housing (10); a gas inlet opening (11 where 16 branches off) located within a bore in the regulator housing; a gas valve comprising a housing possessing an inlet opening (area that 11 is pointing to in Figure 1) and an exit opening (area that is right before the gas inlet opening); a passageway (area after 11

Art Unit: 3753

and right before the branch leading to 16) extending downstream of the inlet opening, a moveable cover member (12a) adapted to cover the inlet opening of the gas valve, the moveable cover member having a range of motion between a first position wherein the moveable cover member covers the inlet opening and a second position outside of the passageway wherein the moveable cover member is displaced from the inlet opening as seen in Figure 1, the moveable cover member being biased towards the first position (12 and 13 screws the cover into place therefore it is biased into the first position); and the gas outlet opening of the gas valve is in fluid communication with the gas inlet opening of the first stage regulator (col. 2, lines 4-21). Contreras fails to disclose a filter located within the passageway so that fluid must pass through the filter to pass through the exit opening, a retainer for removably securing the filter within the exit opening of the passageway, and the housing of the gas valve includes a portion threaded into the bore of the regulator housing and wherein the moveable cover member is adapted to automatically move from the second position to the first position when the valve is disconnected from a source of compressed gas. Schuler discloses a gas valve (the device that encloses 20 and that is threaded into housing 12) comprising a housing possessing an inlet opening (area below 20 away from 12) and an exit opening (area that the gas valve enters 12); a passageway (the passage through the gas valve) extending downstream of the inlet opening and a filter (20) located within the passageway so that fluid must pass through the filter to pass through the exit opening, and the housing of the gas valve includes a portion threaded (area that the gas valve meets 12) into the bore of the regulator housing (col. 3, lines 43-50). Schuler fails to

Art Unit: 3753

disclose that a retainer for removably securing the filter within the exit opening of the passageway is used. Dey discloses a retainer (32) for removably securing the filter within the exit opening of the passageway (col. 2, lines 56-60). Hershman discloses the use of spring (41) assisted closing devices (40) to cover up a passageway (23)(col. 2, line 20 to col. 3, line 47).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a removable gas valve as disclose by Schuler with the device of Contreras, in order to easily replace the gas valve.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a removable retainer with the filter as disclosed by Dey with the filter of Contreras as modified by Schuler, in order to be able to replace the filter as needed.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the idea of a spring assisted closing device as disclosed by Hershman in place of the closing device of Contreras in view of Schuler and Dey, to have a closing device that is closed when not in use.

Regarding claim 70, the valve further comprising an attachment member (30) for coupling the moveable cover member to the valve.

Regarding claim 97, Hershman utilizes a biasing element (41) which is offset from the inlet as seen in Figure 1 and therefore is not aligned with the inlet opening. Art Unit: 3753

Regarding claim 98, the Hershman biasing element would continuously bias the moveable cover member to the first position and be in continuous contact with the movable cover member.

Regarding claims 99 and 100, the biasing element comprises a spring hinge and a resilient arm as seen in Figure 2.

Regarding claim 101, the resilient arm of Hershman would be in a low stress condition with the moveable cover member being in the first position and a high stress condition with the moveable cover member being in the second position.

Regarding claims 102 and 103, the valve further comprising a screw member (15) threadably connected to the housing and attached to a hand knob (12), the screw member being distal from the moveable cover member with the moveable cover member being in and biased into the first position.

Response to Arguments

5. Applicant's arguments filed 9/8/08 have been fully considered but they are not persuasive. The applicant is arguing that the Hershman reference would not function as indicated. The applicant in the Remarks dated 9/8/08 on page 11, line 14 to page 12, line 2 indicate that the cover member would be biased to the closed position when the coupling element is removed. The applicant then indicates that this is not how the device of Hershman would function that the cover member in fact would not revert back to its intended closed position as stated. Hershman therefore would not be capable of performing the claim limitations of automatically moving from the second position to the first position when the valve is disconnected. The applicant is merely making an

Art Unit: 3753

accusation that the Hershman device does not function as disclosed and therefore would not meet the claim limitations. The examiner has indicated that the device of Hershman is biased to close a pathway and this position is further supported by the applicant's Remarks of 9/8/08 as indicated on page 11, line 14 to page 12, line 2.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CRAIG M. SCHNEIDER whose telephone number is (571)272-3607. The examiner can normally be reached on M-F 8:00 -4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Huson can be reached on (571) 272-4887. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C. M. S./ Examiner, Art Unit 3753 September 26, 2008 /John Rivell/ Primary Examiner, Art Unit 3753

Page 7

Art Unit: 3753